What is claimed is:

1. An intervertebral spacer for implantation into a disc space between adjacent vertebrae, said spacer comprising a deformable body formed to include a shape memory polymeric material, said body comprising: a first bearing surface, an opposite, second bearing surface and a peripheral sidewall positioned therebetween, said spacer having a lateral axis extending therethrough and positioned to lie substantially parallel said first bearing surface, and wherein said body deforms in a direction along said lateral axis upon application of a selected stimulus.

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- 2. The spacer of claim 1 wherein the spacer is cylindrical.
- 3. The spacer of claim 1 wherein the spacer comprises an elongate body.
- 4. The spacer of claim 1 wherein the spacer is "C" shaped.
- 5. The spacer of claim 1 wherein the peripheral sidewall collapses back onto itself.
- 6. The spacer of claim 1 wherein the peripheral sidewall comprises a first lateral wall portion, an opposite second lateral wall portion, and an end wall portion positioned therebetween.
 - 7. The spacer of claim 1 wherein the body comprises an interior cavity.

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8. The spacer of claim 1 wherein the selected stimuli includes thermal or photoradiation energy.

- 9. The spacer of claim 1 wherein the selected stimuli includes heating to a deformation temperature between about 38° C and about 100° C.
- 10. The spacer of claim 9 wherein the selected stimuli includes heating to a temperature between about 40° C and about 65° C.
 - 11. The spacer of claim 9 wherein the body at a temperature below the deformation temperature exhibits a compression modulus comparable to that of cortical bone.

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- 12. The spacer of claim 9 wherein the body is adapted to withstand 500 N compressive force without significant deformation when maintained below the deformation temperature.
- 13. The spacer of claim 1 wherein the body is provided in a first configuration having a first cross-sectional profile positioned orthogonal to said lateral axis, wherein said body deforms to a second configuration having a second cross-sectional profile positioned orthogonal to said longitudinal axis, said second cross-sectional profile smaller than said first cross-sectional profile.

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- 14. The spacer of claim 1 wherein the polymeric material is biodegradable.
- 15. The spacer of claim 1 wherein the shape memory polymeric material is selected from the group consisting of: polylactide, polyglycolide, poly(lactide-coglycolide), polyurethane, poly(ethylene-co-vinyl acetate), poly(ethylene-co-propylene), poly(ethylene-co-propylene-co-diene), poly(ε-caprolactone), poly(β-hydroxybutyrate), poly(β-hydroxybutyrate-co-hydroxyvalerate), poly(methacrylate), poly(methyl methylacrylate), poly(acrylate), and mixtures, copolymers and blends thereof.

- 16. The spacer of claim 1 wherein the body is provided in an original configuration.
- 17. A spacer for insertion into the spine, said spacer formed of a material comprising a shape memory polymer and provided in an original configuration and deformable to a second configuration, wherein said spacer reverts to the original configuration by action of the shape memory polymer.
- 18. A method of orthopedic treatment, said method comprising: preparing one or more vertebrae to receive a spacer,

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implanting a spacer to contact one or more vertebrae, said spacer formed of a material comprising a shape memory polymer and provided in an original configuration and deformable to a second configuration, wherein said spacer reverts to the original configuration by action of the shape memory polymer, and

subjecting said spacer to a selected stimulus wherein said spacer deforms.

- 19. The method of claim 18 wherein said subjecting comprises subjecting the spacer to a selected stimulus after the spacer has been implanted.
 - 20. The method of claim 18 wherein the selected stimuli comprises heating the spacer to a temperature between about 40° C and about 65° C.
 - 21. The method of claim 18 wherein the body is cylindrical or C-shaped.
 - 22. The method of claim 18 wherein the body is kidney-shaped.

- 23. The method of claim 18 wherein the spacer is implanted into a disc space between adjacent vertebrae.
- 24. The method of claim 18 wherein the body expands laterally in a prepared 5 disc space.
 - 25. The method of claim 18 wherein the body includes an interior cavity for receipt of an osteogenic material.
 - 26. The method of claim 18 wherein the spacer is biodegradable.

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27. The method of claim 18 wherein the spacer is implanted into a vertebral body.